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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,173	06/22/2001		Vladimir V. Petunin	2282P113	8844
22907	7590	08/18/2006		EXAMINER	
BANNER 1001 G STI			SINGH, RAMNANDAN P		
SUITE 110			ART UNIT	PAPER NUMBER	
WASHING	TON, DO	20001	2614		
				DATE MAILED: 08/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/888,173	PETUNIN, VLADIMIR V.			
Office A	ction Summary	Examiner	Art Unit			
		Ramnandan Singh	2614			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHICHEVER IS LC - Extensions of time may be after SIX (6) MONTHS fro - If NO period for reply is sylunting to reply within the Any reply received by the	NGER, FROM THE MAILING D. e available under the provisions of 37 CFR 1.1 om the mailing date of this communication. pecified above, the maximum statutory period v set or extended period for reply will, by statute	Y IS SET TO EXPIRE <u>1</u> MONTH() ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI g date of this communication, even if timely filed	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
2a)☐ This action is 3)☐ Since this app	olication is in condition for allowa	une 2001. s action is non-final. nce except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 45				
Disposition of Claims	·					
4a) Of the abo 5) ☐ Claim(s) 6) ☐ Claim(s) 7) ☐ Claim(s)		wn from consideration.				
10) The drawing(s Applicant may r Replacement d	not request that any objection to the rawing sheet(s) including the correct	er. septed or b) objected to by the Education of the Indication of the Indication of the Indication of the Indication of Indication of the Indication of the Indication of I	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.0	C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	::! (DTO 802)	o□				
	s Patent Drawing Review (PTO-948) Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Group-I. Claims 1-6, drawn to a method of laying out on a virtual printed circuit board, classified in class 29, subclass 846.
 - Group-II. Claims 7-10, drawn to a method of creating clearances on a virtual printed circuit board, classified in class 29, subclass 825.
 - Group-III. Claims 11-12, drawn to a method of maintaining clearances between traces on a printed circuit board, classified in class 29, subclass 846.
 - Group-IV. Claims 13—18, drawn to a machine-readable medium to reduce crosstalk on a virtual printed circuit board, classified in class 379, subclass 417.
- 2. The inventions are distinct, each from the other because of the following reasons: Groups I, II, II and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01).

In the instant case, the different inventions are unrelated because of the following:

Group-I is separate and distinct from Groups II-IV because Group-I needs the step of "routing". This step is not necessary for Groups II-IV; Group-II is separate and distinct from Group III. Groups-II and III are species and do not have genus; Group II is

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separate and distinct from Group IV because they are unrelated inventions; Group III is separate and distinct from Group IV because Group III does not have a machine-readable medium.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classifications and subject matter, the search required for each invention is not required for the other.

 Therefore, restriction for examination purposes as indicated above is proper. See MPEP 806.05 (d).
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1,48(b) and by the fee required under 37 CFR 1.17(i).

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6. A shortened statutory period for response to this office action is set to expire **0 (zero) months and 30 (thirty) days** from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of this application (see 35 U.S.C. 133 and MPEP 710.02, 710.02(b)).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramnandan Singh whose telephone number is (571) 272-7529. The examiner can normally be reached on M-TH (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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